



WITHIN OUR BORDERS



AN ALBERTA
GOVERNMENT
PUBLICATION

- Health Survey
- Training Program
- Industries Flourish
- City of Medicine Hat

MAY, 1967

Microfilm System To Speed Processing

ELECTRONIC AND MICROFILM magic has come to the aid of the Central Registry of the Alberta Attorney-General's Department in registering and searching more than 4,000 documents per month.

The system installed in the registry office on the second floor of the Land Titles Building in Edmonton is known as "Miracode", for Microfilm Information Retrieval Access Code.

Synopses of documents to be registered are photographed on 16-millimetre film, together with coding card punches. These films in 100-foot lengths containing up to 1,500 entries, are held in letter-keyed cartridges to form a rapid index to a sequential microfilm file of contracts.

The contract file is formed by microfilming the pages of the original documents in sequence, according to registration number. After this film is processed and checked, the contracts may be destroyed or returned to the person registering them. As an additional service, a copy of this film is sent to Calgary to offer prints of actual contractual information there, as well as being available at Central Registry.

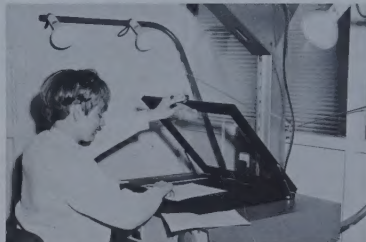
To allow the new system to go into operation, changes in legislation were required to provide that prints from microfilm must be accepted in evidence, and to authorize the retention of documents only on microfilm.

The documents registered under the new system include Chattel Mortgages, Conditional Sales Contracts, Lien Notes, Partnerships and Trade Names, and Assignment of Book Debts. The term of registration will continue to be three years, if not renewed within that time.

By means of a Telex network provided by Alberta Government Telephones lines, Central Registry is connected with 11 outlying registration offices throughout the province. By this network, registration and searches may be instituted immediately at the outlying offices. They are located in the court houses at Calgary, Drumheller, Fort Macleod, Grande Prairie, Hanna, Lethbridge, Medicine Hat, Peace River, Red Deer, Vegreville and Wetaskiwin.

Rapid-scanning machines provide almost-instant recall of the filmed documents when a person applies for a search. In many cases, the synopsis provides all the information required by a searcher, and if a copy is required, the touch of a button on the scanning machine will provide a dry photo copy of the synopsis.

If more detailed information is required, the microfilmed pages of the original document may

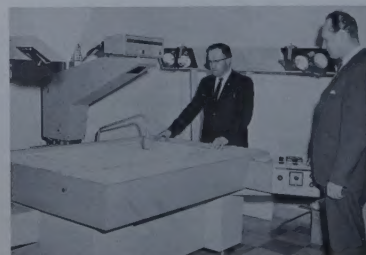


Miss Cathy Carlyle copies old court house documents at a micro file machine.

be viewed on the scanning screen of another machine. The correct document is located by punching the identifying sequence number on a connected keyboard.

In related projects using the new equipment, Central Registry also is microfilming vast numbers of ancient records which fill storage space in the Edmonton court house, some dating back more than 80 years. Also, in another project expected to take several years, land plans filed in Calgary and Edmonton are to be recorded on microfilm. There are about 50,000 in Edmonton and 25,000 in Calgary to be so preserved.

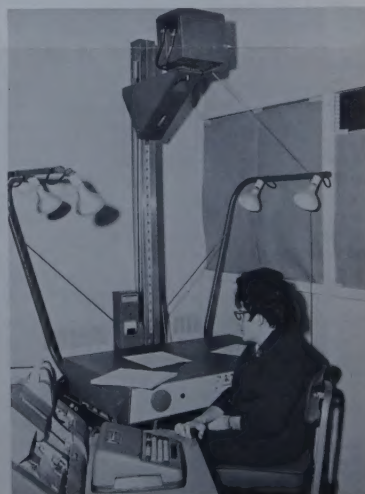
The new system is the most advanced of its kind in Canada, and inquiries concerning its operation are expected from other centres. It has also been devised with a view to the possibility of future assimilation of the Motor Vehicle Central Registry into the system.



Registrar H. J. Corie and J. J. Cunningham place a land plan on the light table of an automatic engineering camera, which copies plan on 35-millimetre film.



Mrs. Bonnie Dahl operates keyboard at reader-printer to retrieve synopsis film. Index film cartridges are stored in container at left, feed automatically when inserted in machine.



Miss Linda Cranna operates a Miracode Micro-filmer, photographing synopses for retrieval index.



Flood Creek ravine, a 175-foot chasm in the shadow of the Canadian Rockies, will be the site of one of the highest railway embankments in Canada when the Alberta Resources Railway spans it. Underlying unstable shales make it necessary to divert the creek through two massive 120 and 84-inch culverts and fill the ravine with 800,000 cubic yards

of earth and crushed rock. The railway, being built by Canadian National Railways under a provincial crown corporation, is scheduled for completion in 1967. It is expected to open up vast reserves of timber, pulpwood, gypsum and top-quality coking coal for development. Giant earth-moving machines work on the steep slope in the centre.

Wilderness Area Used As Classroom To Train Heavy Equipment Operators

HEAVY BUSH AND MUSKEG make a tough training ground, but Alberta's Department of Education has taken advantage of wilderness conditions to train heavy equipment operators in the same environment in which they are likely to find jobs. Men with these skills are among those needed to develop northern areas of the province, rich in natural resources but sparsely settled.

The training ground mapped out was a ten-acre site at Camp No. 4 on the Alberta Resources Railway, which was slowly advancing through rugged country to the Smoky Lake coal deposits 111 miles northwest of Solomon, Alberta. Trailer facilities for living and classroom accommodation, six instructors and six pieces of heavy equipment were provided by the Mannix Company, one of the railway contractors on the \$40 million project.

Generous allowances, ranging from \$50 to \$88 a week, were paid 43 trainees under a

federal-provincial agreement. The Alberta Division of Vocational Education supplied course directors and supervisors for the guidance and instruction of the trainees referred by the federal Department of Indian Affairs and by employment agencies. The men are also being assisted to find employment by the Canada Manpower Centres.

Each day, during the four-week program, the men spent six hours gaining practical experience on heavy equipment and three hours learning how to maintain it. To each man this meant working in teams of five on D8 caterpillars, No. 12 graders, No. 631 scrapers and then taking classroom instruction in groups of fifteen.

During the first three weeks each man had an opportunity to develop skills on each type of equipment. He then concentrated on the equipment for which he showed the greatest aptitude. Film strips and demonstrations were used in classroom sessions to help the men, several of whom had no previous formal education or training. The course included instruction on oil and fuel filters, oil pressures, running temperatures, lubrication, and proper starting and stopping procedures.

On completion of the course, trainees were presented with certificates recording the number of man-hours of training on heavy equipment and classroom instruction. The Alberta Department of Education plans to evaluate the experimental training program. In the meantime a broad clearing deep in bush and muskeg country is testimony to a new trail broken in the field of education.



Under the guidance of Jim Sewell, instructor of a pilot project to train heavy equipment operators in northern Alberta, Alphonse Auger of Wabasca, learns how to operate a Caterpillar unit.

Pollution Conference Reports Now Available

BACKGROUND PAPERS AND proceedings of a national conference on pollution, for which the Government of Alberta was one of the sponsoring agencies, have been made available to Alberta residents and organizations.

The conference on Pollution and Our Environment, sponsored by the Canadian Council of Resources Ministers, was held in Montreal Oct. 31 to Nov. 4, 1966. Ministers and representatives of four Alberta departments, Lands and Forests, Public Health, Agriculture, and Industry and Development, participated. Representatives of all provinces and the federal government, municipalities and industries attended.

Copies of the papers are available at the offices of the Queen's Printer, Edmonton, at \$24 per set.

"Within Our Borders" is a publication designed to acquaint the people of the Province with the administration of the Alberta Government.

There are no restrictions in the republishing of any material but a credit line would be appreciated.

Notice of change of address should be accompanied by the mailing address on the front of this issue. No charge is made for "Within Our Borders" and new readers are invited to forward their name and address to "Within Our Borders," Room 245, Highways Building, Edmonton.

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MAY, 1967

Province-Wide Health Survey Covers Workers In Grain, Seed, Feed Plants

AN INDUSTRIAL HEALTH PROGRAM to examine all workers in grain elevators, seed cleaning plants and feed mills in Alberta is being conducted this spring.

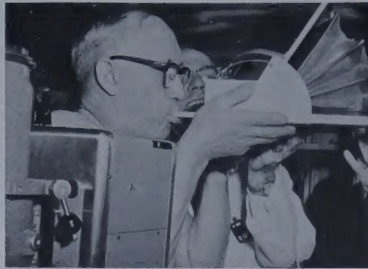
Chest, respiratory and allergy examinations of about 250 persons in Edmonton and within a 30-mile radius were completed by Dr. H. Siemens, director of Industrial Health Services of the department, and the operator of the mobile unit designed for the program. The Unit went to Calgary early in April, then moved to points east along the Trans Canada Highway and to Medicine Hat.

Through May and June the unit will be routed on a zig-zag course northward, with stops scheduled at 40 points.

More than 2,000 employees of the 1,400 grain elevators, mills and seed plants will be covered by the survey. The grain companies are co-operating to have all workers transported to the survey points.

It is the first attempt to cover an entire industry throughout the province in one continuous survey.

Four points are covered in each examination. First, an extensive questionnaire is completed, covering occupational history, smoking history, chest illnesses, coughing or breathing difficulties, and allergic, asthmatic or skin disorders. Then a chest X-ray, a test of breathing capacity and a seven-point skin test for allergies are given. The skin test is intended to show any reaction to fungi from grain seeds, mixtures of weed seeds, or grain dust. The breathing test records any impairment in respiratory or lung capacity.



Vitalor apparatus measures breathing capacity.

Information from the tests and the history sheets will be tabulated on punch cards so results of the survey can be quickly computed.

Any serious disorders or abnormalities detected by the survey will be reported to the individual so he may receive treatment from his family doctor. Results of the complete survey will be studied to see whether the findings should bring recommendations for any changes in grain handling methods, equipment or ventilation, or in protective devices such as masks or hoods worn by workers.

The survey is being conducted as part of the program of industrial dust surveillance, which has dealt in the past with mineral dust such as coal and silica, and such fields as sand blasting, gravel crushing, street sweeping and foundries. The present program is the first to deal with the problem of organic dust, from living matter. ●

STUDY TO ENCOURAGE HIGH SCHOOL STUDENTS TO CONTINUE EDUCATION

A RESEARCH PROJECT to discover why 50 per cent of high school matriculants ignore opportunities for post-secondary education in Alberta will start this year under joint sponsorship of the Alberta Department of Youth and the University of Alberta Students' Union.

Students in four Alberta high schools will be interviewed over a five-month period before and after school summer holidays. The research findings will be reported to the province's Department of Youth and Department of Education. Interviews will be held in a high school in a large urban centre, a small central Alberta high school, another in southern Alberta and one in an isolated northern part of the province.

A student-to-student approach will be conducted by two full-time university students familiar with post-secondary education programs in provincial universities, technical institutes, agricultural schools, nursing schools, junior colleges and vocational centres.

Basically the project will take the form of a high school visitation project to inform students about the types of post-secondary education programs and financial assistance available.

Students from technical schools, junior colleges, nursing schools and agricultural colleges will also be brought into the program to explain to high school students why they chose a particular type of post-secondary education program.

The student researchers will also be seeking answers to such questions as: Are you planning further education after high school graduation? If not, what is the greatest barrier to further training for you? Would free tuition make it possible for you to go to university, to junior college, to a technical institute? Do you lack information about education programs beyond high school? Do you know about the Alberta government's student assistance program of scholarships, bursaries, grants and loans?

With answers to these questions, among others, it is hoped the research project will contribute to the achievement of equality of opportunity for more students in Alberta. ●

Four Alberta Girls Are Guides At Expo

FOUR ALBERTA GIRLS have been named as guides to the Western Canada Pavilion at Expo '67. Miss Ilonka Halpern, 11311-109A Ave., and Miss Marilyn Pilkington, of 11404-58 Ave., both of Edmonton; and Miss Cecile Denise Danaïs, of 308-24 Ave. S.W., and Miss Dee Comeau, of 811-15 Ave. S.W., both of Calgary, have been appointed Alberta members to the 16-girl guide staff. Four are nominated from each of the western provinces.

Miss Pilkington, student at the University of Alberta, has won many scholarships and awards for services with the Students' Union. She is vice-president of the Students' Union for 1966-67 term, as well as holding many other offices in university activities.

Miss Halpern is librarian assistant with the University of Alberta. She has been active in athletic programs and has served as a swimming and gymnastics instructor.

Miss Danaïs, a laboratory technician with the Holy Cross Hospital in Calgary, is past president of a section of the Young Christian Students, and

a member of the Canadian Society of Laboratory Technicians. She was active in student activities in St. Boniface, where she lived prior to taking up residence in Calgary.

Miss Comeau, educated in McLennan, Alberta, was active in student affairs while at school, and is secretary to the local C.Y.O. group. She is employed with a trust company in Calgary.

All guides are fluent in both English and French. Miss Danaïs has some proficiency in Italian, while Miss Halpern speaks German and Dutch in addition to French. They have taken correspondence training to acquaint them with the story of Western Canada, historically, socially and economically. All guides will be responsible for answering queries from visitors, about the west in its entirety and not only those referring to the province in which they have resided.

In Montreal they have had further training before taking up their duties at the Western Canada Pavilion for the exhibition which opened April 28. ●

Loans Total \$51,269,529.97 For Rural Electrification

ALBERTA RURAL Electrification Associations have borrowed \$51,269,529.97 to the beginning of April, 1967, from the revolving fund operated by the provincial Treasury Department. Loans granted in March totalled \$110,618.92.

The fund was established by statute in 1953, and the first advance was made in March, 1954. A total of \$25,000,000 has been provided by the provincial government to the fund, and repayments to March, 1967, have totalled \$33,798,399.93. ●

Coming Events

(Continuation of Listings From Page 4)

MAY

- 28 Guides and Brownies Centennial Rally (Southern Area) Lethbridge
- 28 Novice Rally and School Rally — N.A.S.C.C. Edmonton
- 28 Presentation of \$100 Prize to Winner of Grande Prairie Sprint Grande Prairie
- 28 Polish Canadian Variety Show Lethbridge
- 28 Drum Head Service - Presentation of Memorial Tank Medicine Hat
- 28 River Regatta Big Valley
- 29-31 Appraisal Institute of Canada Convention Banff
- 29 Voyageur Canoe Pageant Smoky Lake
- 29 Edmonton Lutheran Centennial Choir Concert Edmonton

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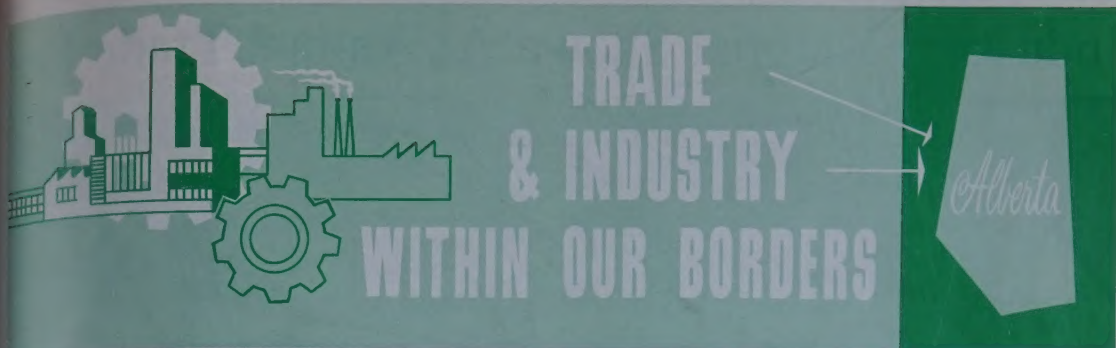
- Northern Alberta Institute of Technology Graduation Exercises Edmonton
- 29-31 Alberta Chamber of Commerce Convention Calgary
- 30 Confederation Caravan Bassano
- 30 Voyageur Canoe Pageant Two Hills
- 30-31 Coronation District 4H Calf Show and Sale Coronation
- 30-31 Annual Kinsmen Rodeo Hanna
- 30-31 U. of A. Convocation, Part I, II, III Edmonton
- 31 Confederation Caravan and Centennial Day Strathmore
- 31 Voyageur Canoe Pageant Elk Point
- 31-June 2 Alberta W.I. Convention Edmonton
- 31-June 3 Appraisal Institute of Canada Convention Calgary
- 31-June 4 Law Societies of Alberta and Saskatchewan Convention Banff

Coming Events

MAY

1	Confederation Caravan	Milk River
1	Arbor Day - Tree Planting	Wetaskiwin
1-2	Bull Show and Sale	Lloydminster
1-2	Senior Canadian Trade Commissioners Convention	Edmonton
1-5	Kiwanis Music Festival	Lethbridge
2-3	Confederation Caravan	Raymond
2-4	Western Canada Funeral Directors Convention	Calgary
2-6	Calgary Horse Show	Calgary
3	Hadassah Centennial Bazaar	Calgary
3	Centennial Tree Planting	Medicine Hat
4	Confederation Caravan	Magrath
4	Shell 4000 Overnight Stop	Red Deer
4	Northwest Bible College Commencement	Edmonton
4-6	Art Club Exhibits and Ceramics Display	Athabasca
5	Centennial Ball and Art Exhibit	Athabasca
5-6	Rock & Gem Show	Calgary
5-6	Ukrainian Festival	Edmonton
5-6	Confederation Caravan	Cardston
5-6	Toastmasters Club - District 42 Convention	Edmonton
5-6	Waskasoo Varieties	Red Deer
5-6	Canadian Polish Congress - Centennial Concert	Edmonton
5-7	Certified Dental Mechanics' Association of Alberta Convention	Calgary
6	Centennial Walkathon - YW/YMCA	Medicine Hat
6	Citizens Tree Planting - Confederation Park	Calgary
6	Y.M.C.A. Gym Show	Lethbridge
6	Canadian Polish Congress - Centennial Festival	Edmonton
7	Camrose Lutheran Choir Concert	Edmonton
7	Ukrainian-Canadian Society Concert	Lethbridge
7-9	Confederation Caravan	Pincher Creek
8	Sales Seminar - Chamber Bureau of Ads and Sales	Edmonton
8	Military Tattoo	Medicine Hat
8	"MAYTIME IN ALBERTA" Edmonton University Choir	Lethbridge
8-9	Military Tattoo	Lethbridge
8-13	Special Musical Play	Medicine Hat
9-12	Western Association of Broadcasters Convention	Edmonton
10	Confederation Caravan	Blairmore
10	Edmonton Public School Board - Centennial Presentation	Edmonton
10	The Passing Parade 1867 - 1967	Tofield
10-11	Centennial Pageant	Lethbridge
10-12	Canadian Institute of Mining and Metallurgy Convention	Calgary
11	Confederation Caravan	Coleman
11-13	Jaycee Trade Fair	Grande Prairie
11-13	Military Tattoo	Edmonton
11-13	Military Tattoo	Calgary
11-13	Religious Historical Pageant	Calgary
11-14	Centennial Horse Show	Red Deer
12	Folk Arts Festival	Drayton Valley
12	Second Annual Spring Ball	Whitcoult
12	Arbor Day - Tree Planting	Calgary
12	Arbour Day - Tree Planting	Calgary
12-13	Confederation Caravan	Fort Macleod
12-13	Mid N'Western Conference Christian Businessmen's Association	Edmonton
12-14	Alberta Arms & Cartridge Collectors Assoc. Centennial Show	Edmonton
13	Alta. Tuberculosis Association - Annual Meeting	Edmonton
13	National Chinchilla Breeders of Canada (Calgary Branch) Annual Field Day	Calgary
13	Barbershopper's Harmony Night	Camrose
13-14	Centennial International Dog Show	Calgary
14	Devon Time Trial N.A.S.C.C.	Edmonton
14	Ukrainian Canadian Centennial Folk Pageant	Edmonton
14-15	Confederation Caravan	Claresholm
15-19	Public School Board Centennial Musical Festival	Calgary
16-19	Alta. Association of Registered Nurses Convention	Edmonton
16-21	Canadian Plumbing and Mechanical Association Convention	Banff
17	Confederation Caravan and Centennial Day	Nanton
17	Citizenship Day	Edmonton
17	Shrine Centennial Tea	Medicine Hat
17-20	Western Canada Petroleum Accountants Society	Jasper
17-20	Conference on the History of the West	Banff
18-19	Confederation Caravan	High River
18-20	Optimist Club Convention	Edmonton
18-20	Data Processing Management Association Convention	Calgary
18-20	Lloydminster Centennial Jamboree	Lloydminster
18-20	Peace Players Revue "Sorry 'Bout That"	Peace River
19	Kinsmen's Centennial Sportsmen Dinner	Red Deer
19	Aug. 6 5th Annual Fish Derby	Lac La Biche
19	Citizenship Day	Calgary
19-20	Baton Twirling Competition - National	Lethbridge
19-20	Annual Indoor Rodeo	Slavey
19-21	American Contract Bridge Association Convention	Edmonton
19-21	Provincial Jaycees Convention	Calgary
20	Highland Dancing and Piping Competition	Jasper
20	Confederation Caravan	Black Diamond
20	Heritage Park Opens for Summer	Calgary
20	Centennial Celebrations begin	Rocky Mountain House
20	Medicine Hat Musical - Centennial Players	Lethbridge
20-22	Elks Baseball Tournament	Jasper
20-22	Calgary Centennial Sports Festival	Calgary
20-22	North Calgary Jaycees Convention, Alberta and N.W.T.	Calgary
20-22	Centennial Golf Tournament	Medicine Hat
21	Centennial Golf Tournament	Rocky Mountain House
21-22	Elks Ball Tournament	Fort Saskatchewan
21	Outdoor Centennial Joint Church Service	High River
21	Special Victoria Day Programs	Calgary
22	Thorncliffe Community Centre - Dedication of Memorial Entrance	Calgary
22	Confederation Caravan	Vulcan
22	Dedication of Centennial Project	Louheed
22	Dedication of Memorial Centre	Calgary
22	Victoria Day Celebrations	Edmonton
22	Centennial Air Show	Rocky Mountain House
22	Diamond Jubilee Celebrations	Bonnyville
22	Little Britches Rodeo	High River
22-27	Shrine Circus	Edmonton
23	Centennial Sports Day	Sylvan Lake
23	Rocky Agriculture Board Stampede	Rocky Mountain House
23-27	C.I.M. Petroleum Society Convention	Banff
24	Schools Centennial Celebration Day	Medicine Hat
21	Confederation Caravan and Dedication of Centennial Park	Oktoks
21	Sports Car Gymkhana - N.A.S.C.C.	Rocky Mtn. House
21-22	Sports Day	Slave Lake
24	Thorncliffe Community Centre - Laying of Corner Stone for Flag Pole and Planting Rock Garden	Calgary
24	Western Canada Soaring Championships	Red Deer
24	Antique Car Parade	Red Deer
24	Elks Baseball Tournament	Jasper
24	Centennial Voyageur Canoe Pageant	Rocky Mountain House
24-25	Tree Planting Ceremony	Vermilion
24-25	Confederation Caravan	Taber
24-25	Visit of Princess Alexandra	Calgary
24-26	Alberta Magistrates Association	Edmonton
24-27	MAC 14 Theatre "The Wild Rose"	Calgary
25	Start of Voyageur Canoe Pageant	Rocky Mtn. House
25	Voyageur Canoe Pageant and Dedication of Centennial Civic Centre	Drayton Valley
25	Centennial Ball I.O.D.E.	Calgary
25-27	Centennial Concert - Ruth & James Ringland	Lethbridge
26	Alberta Mortgage Loans Association	Jasper
26	Girl Guide Rally - Corral	Calgary
26	Confederation Caravan	Bow Island
26	Voyageur Canoe Pageant	Devon
26	Riverside Picnic Honouring Voyageur Canoe Pageant	Stony Plain
26	Centennial Street Dance and Celebrations	Tofield
26	Alta. Teachers Assoc. Centennial Ball	Lethbridge
26-27	Ukrainian Festival	Edmonton
26-27	Centennial Square Dance	Red Deer
26-27	Lethbridge Churches "Expo Choir"	Lethbridge
26-28	Knights of Columbus Convention	Edmonton
26-28	Canadian Union of Public Employees Convention	Edmonton
27	Official Opening Historical Museum	Medicine Hat
27	Voyageur Canoe Pageant and Voyageur Ball	Edmonton
27	Canadian Legion Band Festival	Lethbridge
27	Centennial Library Dedication	Edmonton
27	Princess Alexandra Visit	Edmonton
27	Troop SALH Color - Presentation of Freedom of the City	Medicine Hat
27	Women's Institute Centennial Fashion Show	High River
27	Expo Choir	Lethbridge
27-28	Confederation Caravan	Brooks
28	Voyageur Canoe Pageant	Fort Saskatchewan

(Additional Listings on Page 3)



World's Largest, Most Modern Colour Press For Printing Plastic Bags Installed At Calgary

BONAR & BEMIS LTD. have extended their bag manufacturing facilities in Alberta with the construction of a new 2½ million dollar plant in Calgary. This plant will produce polyethylene, aluminum foil and VISAIR (polyethylene mesh) containers over a large range of sizes and types.

The first Alberta plant of the company was established in Calgary in 1948 for the prime purpose of producing burlap and cotton bags for the milling, produce, malting and meat packing industries. The new plant represents the company's recognition of the rapidly changing field of packaging and the role that polyethylene will play in it.

The Calgary Plastic Division plant has been formed through the consolidation of two plastic bag operations formerly located in Winnipeg and Vancouver, plus a new phase of plastic bag manufacturing to serve users of heavy duty plastic containers.

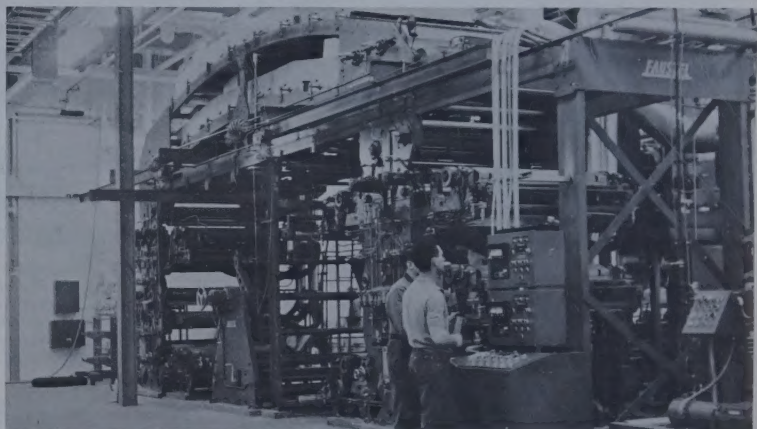
On receipt of basic raw materials the plant performs every facet of processing, printing and fabrication to the finished product packaged for shipment.

The polyethylene converting operation begins with polyethylene resin pellets being subjected to an extrusion process whereby the pellets are subjected to heat and pressure. The resultant molten plastic is forced through a circular die into the form of a large air filled tube. The quantity of air in the tubular bubble controls the diameter of the tubing produced, while the speed that the tubing is drawn from the face of the die determines the wall thickness.

This polyethylene plastic tubing is then treated to make its surface receptive to printing ink before being wound into large rolls in preparation for the next phase of the operation.

Printing of consumer size bags is presently done on a high speed flexographic press which will be supplemented shortly with a similar piece of equipment. The industrial heavy duty bag press is also of the flexographic type and was custom built for Bonar & Bemis. It is the largest and most modern of its type in the world and is capable of printing eight colors at speeds up to 600 feet per minute. Printing plates for the presses are made on location in the plate department.

Following the printing process, the printed rolls are manufactured into individual bags by means of making heat seals at one end of the tube. Bags and liners can also be provided to customers in "roll form" where the bags are shipped wound into rolls on paper cores. The user snaps the bags off individually by breaking a line of perforations provided for this purpose. Bags in this form are found to be more convenient



World's largest press for printing on synthetic materials has been custom built for the Bonar & Bemis (Plastics Division) of Calgary. The machine will print at a speed of 600 feet a minute and handle up to eight colour reproductions. The plant officially opened in April.

to use and handle than the customary loose individual bags.

Consumer size polyethylene bags can be prepared for customer usage in perfectly aligned bundles on a machine where the bags are counted and stacked automatically at high speed onto wire wickets. These wickets fit the customer's bag loading equipment where the bags are automatically filled and closed at a high speed.

Aluminum foil is printed and fabricated into bags in the first such operation in Western Canada.

Visair polyethylene mesh bags are also printed and fabricated for the packaging of con-

sumer size units of agricultural produce.

Waste material from the various stages of operation can be re-processed, given a uniform colorant to obliterate previous printing, and employed again in the production of bags for non critical uses such as garbage disposal bags.

Construction of the new plant commenced in May, 1966, and production started by the end of the year. Approximately 60 people are currently employed at the plant with further staffing anticipated when the full production is realized later this year. Completion of equipment installation coincided with the official plant opening late in April.

Trailers Produced At Red Deer

TRAVELAIRE TRAILER Manufacturing Ltd. of 9935 69th Avenue, Edmonton have established a second manufacturing plant at the Golden West Industrial Park, Red Deer. The new \$250,000 plant employs 60 local people in the production of the company's 14', 16', 17' and 19' trailers and is currently producing four units per day. When the training of the new staff has been completed it is anticipated that output will rise to six units per day.

The trailers, ranging in price from \$1,600 to \$3,600, plus two truck camper units produced by the company, are sold through distributors from Winnipeg to Vancouver and current orders indi-

cate that \$1½ million sales are assured for 1967. The company is also investigating the potential for mobile home manufacture.

Raw materials used in the trailers are obtained from eastern Canada and the United States; the undercarriage sections are being manufactured in Edmonton.

Originally it was intended to relocate the entire manufacturing plant at the larger Red Deer location, but expanding market conditions have led to the maintenance of both Edmonton and Red Deer shops at capacity to meet current demands.

Industrial Material Shown At Annual Trade Fair



More than 100 business, industrial, government and institutional displays were placed in the Edmonton Sportex Building for the seventh annual Northwest Canadian Trade Fair April 24 to 29. At top left, Sun Appliance and Furniture Ltd. shows the Chalet folding trailer, manufactured by Dual Craft Industries Ltd., 10205 63 Ave., Edmonton. Top right, Alpine

Industrial Distributors Ltd. grills a turkey in an infra-red barbecue as part of their display of gas infra-red heating units. Below, left, furniture and carpets are shown in the booth of Olympia Flooring and Upholstery Ltd., 10767 97 St., Edmonton, and at right powered garden implements are displayed by Bruce Robinson Electric, 149 St. and 115 Ave.

Company Builds Portable Camp Quarters For Use In Remote Oil Development Areas

A COMPANY ESTABLISHED IN Edmonton little more than a year and a half ago with half a dozen workers has grown into a major supplier of portable camps for remote oil exploration locations, with an annual business volume exceeding a million dollars.

Porta-Built Industries Ltd., from its South Edmonton location, has shipped more than 180 units to industrial users, mostly in the northwest corner of Alberta, the Rainbow Lake, Zama and High Level areas. These range from single unit "Cat camps" for the operators of heavy earth-clearing equipment to a ten-unit "Helicopter Camp" capable of housing 38 men with kitchen, diner, storeroom, washroom-laundry, recreation room and sleeping quarters. A helicopter unit, nine by 18 feet, is designed to weigh about 3,000 pounds and is fitted with corner rings to be slung below a helicopter for lifting into roadless wilderness sites.

One of the latest camps to be completed is a "fly-in" type consisting of four buildings 9½ feet by 38 feet, and 8½ feet high. These measurements are important, for each unit is built to fit snugly into the cargo hold of a Hercules air transport.

The type of construction used is "big inside, small outside," thin wall design. The framing is of 2 by 3 inch wood, faced on the inside with plywood or tile-finish hardboard. A one-inch layer of styrofoam insulation, the efficient type used in thin-wall refrigerators, is placed in the walls, the electric wiring installed, and a second layer of styrofoam fitted around it. Then the outer plywood wall is secured, and metal cladding placed over all. This sandwich wall, less

than four inches thick, has the insulating qualities of six inches or more of loose-fill or batt-type insulation.

The kitchen-diner unit, lined with sparkling white tile, has all facilities usually found in a small restaurant, including heavy-duty range, refrigerator, water heater and filter unit, sinks, and even an electric dishwasher. The dining area seats 18. The remainder of the camp is made up of a washroom-laundry and two sleeping units containing four mahogany panelled rooms, each normally sleeping four but capable, because of the double deck bunks installed, of sleeping eight, or a total of 32 in the camp.

Porta-Built's president, Gerald M. Fergstad, says the company is not the biggest in its field, but it is versatile and can custom-build units quickly to meet a customer's individual needs.

The company has employed about 80 men during the past winter season, drawing upon many seasonably-employed men such as farmers and carpenters. About 50 were employed in the spring, many working on an additional line of 16-foot camping trailers being produced on an experimental basis.

Mr. Fergstad, a native of Edmonton, was manager of an Alberta-based portable building company's office in San Francisco, when he decided to set up operations in Edmonton. Two other Edmonton men, Neil J. Jevning, formerly of Riley, and Douglas McNabb, and two other shareholders, joined him in the venture. The share has expanded into about 16,000 feet of leased shop space, with 2½ acres of yard, at 67 Avenue near 99 Street.



Kitchen-diner unit to seat 18 will fit into transport plane.

New Safety Device

A CALGARY MAN, G. R. KENDALL, has designed and developed a simple yet effective safety device, the use of which could help materially reduce the number of accidents involving bicycles, motorcycles, scooters, trailers, farm machinery and other vehicles which are operated at a comparatively low speed.

Introduced to the trade under the name of Tiger Lite, the unit consists of two three-inch reflectors mounted on spring steel. When attached to the vehicle, it vibrates with the motion of the vehicle the instant it gets underway. The vibrating movement is such that it automatically increases the size and range of the reflectors, and the bobbing, weaving light attracts immediate attention.

The new product is being manufactured by Advance Industries, the workshop of the Calgary Association for Retarded Children, and production has reached the stage where Tiger Lite now is available for marketing on an extensive basis.

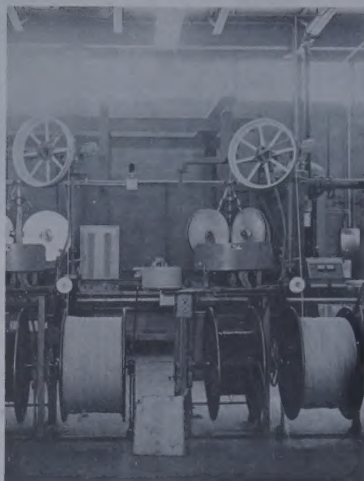
Northern Electric Plant At Calgary Manufactures Building Wire, Cable

ALBERTA'S ONLY MANUFACTURER of electrical building wire and cable went into production on January 3, 1967, only five months and three days after Northern Electric Company Limited first entered into negotiations for land in Calgary's Mayland Heights Industrial Park. The firm made its first shipment of 240,000 conductor feet of building wire just one month and one week later, February 10.

Today, the Northern Electric Calgary Cable Plant is on two shifts a day, five days a week, turning out 2,200,000 conductor feet of insulated cables weekly. These are shipped as single conductor wires or as multi-conductor cables. Originally planned to supply the four western provinces from distribution centres in Vancouver and Winnipeg, the plant is already filling orders from Eastern Canada and is expected to ship directly to branch houses throughout the west in the very near future.

The factory occupies 50,000 square feet on 6.2 acres in the industrial park. The building, which was constructed to Northern Electric specifications at a cost of approximately \$500,000, will house over a million dollars worth of equipment. Present personnel total 19, with 16 staff members in the plant and three in the office, and a payroll of about \$115,000 annually.

The raw materials required for the operation, polyvinyl chloride and copper wire, are received from Northern Electric sources in eastern Canada. Each week, 13,000 pounds of PVC in special 2,000 pound containers are shipped in by rail, along with some 30,000 pounds of drawn copper wire. In addition, the plant uses approximately 2,500 pounds of textiles weekly along with 3,000 pounds of crepe paper. The corrugated cardboard wrapping for coils of wire are purchased locally, as are the non-returnable spools. A. B. Cushing Mills of Calgary has contracted



Equipment in Northern Electric plant.

to supply the 30,000 to 40,000 spools required this year.

By late fall, according to Manager A. Sullivan, the plant will have equipment for drawing and stranding wire so the copper will be shipped in rod form. In addition, by the end of 1967, he expects to be producing approximately half-a-billion conductor feet of telephone cable annually. The present staff will have increased to about 65 by that time as well. The sales value of the new plant's production is estimated at \$7,000,000 annually.

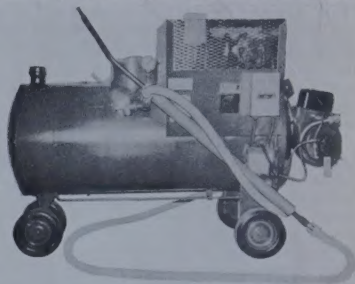
INDUSTRIAL EQUIPMENT MADE AT HIGH RIVER BY HIRMAC COMPANY

AN INDUSTRIAL INVESTMENT of \$100,000 in the town of High River has brought to the area a light engineering company specializing in industrial and commercial equipment and trading under the name of Hirmac Ltd.

Production commenced in mid-January with ten employees engaged to produce three self-contained, portable units for use in steam cleaning, space heating or fogging pest control.

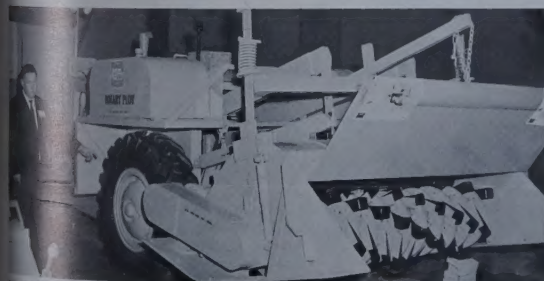
The space heater unit will produce 275,000 BTU input for 15-18 hours on one tank of heating oil. The steam cleaner can be used with either wet steam for automotive, engine, hatchery or dairy cleaning, or with dry steam for use in bakeries. The company is also producing a gas engine model steam cleaner to meet particular needs in specialized industries.

The fogger, with chemicals added to a fine 825-degree steam, produces a rolling mist that efficiently covers large areas of land or water. ●



Model 100 Steam Cleaner produced by Hirmac Ltd. for automotive, engine, hatchery and dairy cleaning. ●

Manufacturers Display Wares At Farm, Ranch Show



Alberta manufacturers of farm machinery were among 75 exhibitors who displayed their wares to 23,500 visitors to the first annual Canadian Western Farm and Ranch Show in Edmonton March 27 to April 1. At top left is a giant Rotary Plow, for breaking and heavy plowing, built by William Goett, 800 10 Ave. S.W., Calgary. Top right is the Root Master, built by Progressive Construction Ltd., 45 Ave. and 104 St., Edmonton, ruggedly designed for breaking virgin land. Below, left,

W. T. Richardson, president of Custom Horse Trailers Ltd., 7708 34 Ave. N.W., Calgary, stands by his firm's two-trailer display. Centre, a powered potato fork used to load potatoes in root cellars, is built in Edmonton by Krause Machine Ltd., 9515 62 Ave., for Glacier Sales Ltd. Right, the Eze-On Front Loader, manufactured by Demkiw and Yakimetz Equipment Ltd., Vegreville, is demonstrated at the booth of Renn Sales Ltd.

THE CITY OF MEDICINE HAT

LOCATION

Section 31-12-5W4 in Census Division No. 1. This location is at the junction of the Canadian Pacific Railway transcontinental line and Crownsnest line. It is on Highway No. 1 (Trans Canada) and the eastern starting point of Highway No. 3. The city is built along both banks of the South Saskatchewan River.

ALTITUDE

2,181 feet. Latitude - 50/03; Longitude - 110/40.

TEMPERATURE

Summer average 66.4°F. Winter average 16.1°F. Annual average 42.2°F.

PRECIPITATION

Average annual rainfall is 9.39 inches. Average annual snowfall is 41.6 inches. Average annual precipitation 13.55 inches.

POPULATION

City population 1964 Dominion census, 27,271. Trading area population, 1961 Dominion census, 60,308.

GEOLOGY AND SOIL

The bedrock of this area, underlying the glacial deposits, is the Belly River formation of the Upper Cretaceous period. This formation is a series of light-coloured sandstone and shales. This horizon includes dinosaur beds and coal seams.

Medicine Hat is in the brown soil zone, and vegetation is the short grass prairie type. In the normal profile the surface horizon is about 5 inches deep and brown. The subsoil is commonly brownish and lime is found averaging 16 inches below the surface. Moisture is the principal limiting factor in crop production. Soils are relatively low in nitrogen and phosphorous, and under irrigation or in a wet year respond to fertilizers supplying these elements.

Only the most favorable soil types can be considered arable. Most of the area is desirable for ranching. Where farmed, wheat is the principal crop. Cropping practices must provide for moisture conservation and control of soil drifting. The long frost-free period makes this zone a desirable area for irrigation.

HISTORY

Medicine Hat's odd and famous name is traced to the days before the white man. The accepted source is that Cree tribes won a battle against the Blackfeet with the help of a charmed hat once owned by a great medicine man. Medicine Hat started as a tent settlement near the bridge crossing the South Saskatchewan River with the coming of the railway in 1883. Fort Walsh, established in 1875 by the North West Mounted Police, just east of the Saskatchewan border, was moved in 1883 to Police Point, which is now the Medicine Hat Golf Course.

LIVING CONDITIONS

Medicine Hat, in the valley of the South Saskatchewan, is a city of trees and gardens. It has wide, paved streets and modern stores. City-owned utilities provide low-cost heat, water and electric power. There is ample provision for sports, drama, recreation and many forms of entertainment. Deer and antelope, ducks, geese and upland birds abound on the nearby prairie, and fishermen find pike, pickerel, perch, gold-eye and ling in the streams. There are more than 7,000 homes in the city, approximately 70 per cent owner-occupied.

Offices of various federal, provincial and municipal departments are located in the city.

The Medicine Hat Municipal Hospital has 280 beds and 37 bassinets. It is staffed by a Hospital Administrator, Superintendent of Nurses, 95 graduate nurses, 60 student nurses, 190 other staff. A chronic hospital addition was completed in 1964.

Medicine Hat Health Unit No. 1 has a staff of one doctor, 7 nurses, 2 part-time nurses, 2



Residential section of Medicine Hat

sanitary inspectors, 2 secretary technicians. Other health services include 9 dentists, 26 doctors, 4 eye, ear, nose and throat doctors, 3 optometrists, 4 chiropractors, 2 dental labs, 3 dental mechanics, 2 optical dispensers, 5 veterinarians, 2 funeral parlors, 9 drug stores, 3 homes for the aged.

ADMINISTRATION

The city is governed by a mayor and eight aldermen, and administered by heads of departments through a co-ordinator, who is responsible to city council. There are several council-appointed boards not under the jurisdiction of the co-ordinator, such as the Board of Health, Library Board, Recreation Commission and Town Planning Commission.

LAW ENFORCEMENT

R.C.M.P. Detachment, Court House (Police Magistrate, Clerk of the Court, Sheriff.) City Police Department (Chief Constable, two Magistrates, Inspector, three Detectives, Traffic Sergeant, four Patrol Sergeants, Desk Sergeant, 27 Constables, Poundkeeper, Court Stenographer.)

BUILDING REGULATIONS

The city operates under a planning by-law which ensures planned development. The Medicine Hat Regional Planning Commission serves the city and the surrounding district. New buildings and improvements must conform to the National Building Code and plans must be approved by the building inspector. Electrical installations must comply with the Alberta Electrical Protection Act; sanitary installations with Provincial Health regulations and gas installations with the Alberta Gas Protection Act.

FIRE PROTECTION

The Medicine Hat Fire Department includes a Chief, Deputy Chief, Fire Inspector and three 10-man platoons. Apparatus includes an Emergency Station Wagon, three pumpers, a 75-foot aerial ladder, a utility hose wagon. Four mobile units are equipped with two-way radio. There are 545 fire hydrants throughout the city.

UTILITIES

Water is obtained from the South Saskatchewan River and pumped through a filter plant into three reservoirs with capacity of 3,750,000 gallons. A newly developed municipal aquifer is being used. It has a capacity of 20 million gallons of pure water per day. There are 86.09 miles of water mains, 79.79 miles of sanitary sewers and 34.34 miles of storm sewers.

Three-phase 60 cycle power is supplied by the City of Medicine Hat, inter-connected with the Calgary Power system.

The natural gas distribution system is owned and operated by the City of Medicine Hat. Gas was first struck by accident in 1883 when the C.P.R. was drilling a water well, and in 1903 the council established a gas distribution system.

EDUCATION

Medicine Hat Junior College offers first-year University program. The Medicine Hat Public School District No. 76 teaches Grades 1 to 12 with optional courses in commercial, home economics, woodwork, metal work, electrical, automobiles, agriculture, music, art, drama and physical education. The system has 244

teachers and 5,270 pupils. The Separate School District No. 21 teaches Grades 1 to 12 with optional courses in art, music, French, home economics and shop. There are 58 teachers and 1,478 pupils. Garbutt Business College offers commercial courses and Hillcrest Christian College offers a four-year course of two semesters each year.

RECREATION

There are 115 acres of parks and playgrounds, of the city's total area of 14,300 acres. The Municipal Library is operated by the city and is open daily. The Recreation Commission sponsors handicrafts, chess, stamp club, square dancing, folk dancing, drama, physical training, basketball, badminton, hockey and baseball. Playgrounds are supervised. The active Medicine Hat Little Theatre has represented the province in the Dominion Drama Festival. There are five dance orchestras and three dance bands. There are numerous youth groups for boys and girls and dozens of lodges and service clubs, societies and associations for men and women.

In sports activities, there are hockey, basketball and softball leagues, curling, lawn and indoor bowling, skating, swimming, basketball, badminton, volleyball, track and field, golf, tennis. Facilities include a covered hockey arena and two outdoor rinks with artificial ice, a covered curling rink with eight sheets of artificial ice, 18 open air hockey and skating rinks, baseball diamonds, two 18-hole golf courses, two lawn bowling greens, three swimming pools, two indoor bowling alleys, 10 track and field areas. Eleven theatres and halls offer capacities from 100 to 840 persons. The Exhibition and Stampede is an annual four-day event, and the Registered Quarter Horse Show a two-day event.

BUILDING SITES

Excellent industrial sites with truckage and highway facilities can be purchased from city at reasonable prices. Residential sites also available from the city. Medicine Hat's per capita share of heavy industry is the largest of any city in the west, and it has all basic requirements for further industrial growth, including cheap fuel, power and abundant water.

TRANSPORTATION, COMMUNICATION

Medicine Hat is on the C.P.R. main line between Vancouver and Montreal. Dayliner service also operates to Lethbridge and Crownsnest Pass. Canadian Greyhound bus service operates to Calgary and points west, to Regina and points east, to Lethbridge, Fort Macleod and Crownsnest Pass. Redcliff Buses operates between Medicine Hat and Redcliff. In the city a private company operates 10 buses on a 30-minute schedule, except Sunday. There is motor transport east and west, and for air service, Maple Air Ltd. makes daily charter flights.

Canadian Pacific Telephones, Alberta Government Telephones, and postal services are readily available. There is one daily newspaper, the Medicine Hat News; one radio station, CHAT, and one television station, CHAT-TV.

ACCOMMODATION

There are six hotels with a total of 300 rooms; 21 motels with a total of 345 units, mostly four-star, and three auto and trailer camps.